

Name: \_\_\_\_\_

**p1105: Factoring when  $a = \text{prime}$  (v16)**

1. Factor the expression  $3x^2 + 4x - 32$

$$(3x - 8)(x + 4)$$

2. Factor the expression  $7x^2 - 71x + 72$

$$(7x - 8)(x - 9)$$

3. Factor the expression  $2x^2 - 25x + 72$

$$(2x - 9)(x - 8)$$

4. Factor the expression  $5x^2 + 51x + 54$

$$(5x + 6)(x + 9)$$

5. Factor the expression  $2x^2 - 13x + 18$

$$(2x - 9)(x - 2)$$

6. Factor the expression  $11x^2 - 60x + 25$

$$(11x - 5)(x - 5)$$

7. Factor the expression  $7x^2 + 60x - 27$

$$(7x - 3)(x + 9)$$

8. Factor the expression  $5x^2 - 7x - 6$

$$(5x + 3)(x - 2)$$

9. Factor the expression  $2x^2 - x - 15$

$$(2x + 5)(x - 3)$$

10. Factor the expression  $5x^2 - 13x - 28$

$$(5x + 7)(x - 4)$$